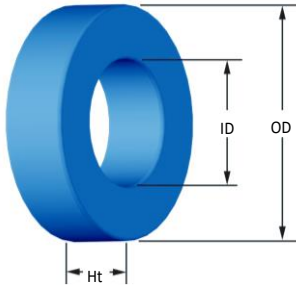


## 2.250 in./57.15 mm OD Toroid



Typical Part Number: **MS - 225 125 - 2**

Material Type ————↑  
 OD in 100th inches ————↑  
 Reference Permeability ————↑  
 Finish ————↑  
 Area for Special Height (in XX.Xmm) ————↑

### Physical Dimensions

OD	Bare Core Nominal	57.15 mm	2.250 in
	Coated Core (max)	58.04 mm	2.285 in
ID	Bare Core Nominal	35.56 mm	1.400 in
	Coated Core (min)	34.75 mm	1.368 in
Ht	Bare Core Nominal	13.97 mm	0.550 in
	Coated Core (max)	14.86 mm	0.585 in

### Magnetic Dimensions

<b>Ae</b>	Effective Magnetic Cross Section	1.44 cm <sup>2</sup>
<b>Le</b>	Effective Magnetic Path Length	14.296 cm
<b>Ve</b>	Effective Core Volume	20.7 cm <sup>3</sup>
<b>WA</b>	Minimum Effective Window Area	9.48 cm <sup>2</sup>
<b>SA</b>	Surface Area	109 cm <sup>2</sup>
<b>MLT</b>	Mean Length Per Turn	7.04 cm

### Permeability

### Part Numbers

Reference Permeability	A <sub>L</sub> Value (nH/N <sup>2</sup> )	MS Sendust	SH High Freq. Sendust	MPP Molypermalloy	Hi-Flux™ Nickel Iron	FluxSan™ Silicon Iron	Optilloy™ Optimized Alloy
14μ	18	MS-225014-2		MP-225014-2	HF-225014-2	FS-225014-2	OP-225014-2
26μ	33	MS-225026-2	SH-225026-2	MP-225026-2	HF-225026-2	FS-225026-2	OP-225026-2
40μ	50	MS-225040-2				FS-225040-2	OP-225040-2
60μ	75	MS-225060-2	SH-225060-2	MP-225060-2	HF-225060-2	FS-225060-2	OP-225060-2
75μ	94	MS-225075-2				FS-225075-2	OP-225075-2
90μ	112	MS-225090-2				FS-225090-2	OP-225090-2
125μ	156	MS-225125-2	SH-225125-2	MP-225125-2	HF-225125-2		OP-225125-2
147μ	185	MS-225147-2		MP-225147-2	HF-225147-2		
160μ	200	MS-225160-2		MP-225160-2	HF-225160-2		
173μ	218			MP-225173-2			
205μ	259			MP-225205-2			
250μ	N/A						
<b>Approx. Unit Weight:</b>		120 g	120 g	150 g	140 g	140 g	140 g

### Test Conditions

<b>Winding</b>	N=80, #18 AWG
<b>Frequency</b>	10 kHz
<b>Voltage</b>	0.51 V
<b>A<sub>L</sub> Tolerance</b>	±8%

### Coating/Packaging Information

<b>Coating Type</b>	Blue Epoxy
<b>Voltage Breakdown</b>	1000 Vrms
<b>Limit</b>	0.1 mA, 5 s
<b>Package Quantity</b>	80 Pcs/Box

### Winding Table

Wire Size	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400
Single Layer	Turns	27	34	43	54	68	85	106	133	166	207	259
	Rdc(Ω)	3.9 m	7.8 m	15.7 m	31.4 m	63.0 m	125.2 m	248.2 m	495.3 m	983.2 m	1.9	3.9
Full Winding	Turns	50	77	119	184	285	441	682	1,056	1,635	2,530	3,916
	Rdc(Ω)	7.2 m	17.7 m	43.6 m	107.1 m	263.9 m	649.4 m	1.6	3.9	9.7	23.8	58.7